

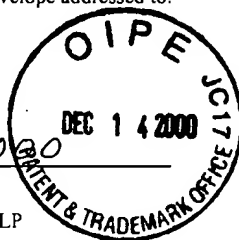
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents
Washington, D.C. 20231

On December 7, 2000

TOWNSEND and TOWNSEND and CREW LLP

By: Sherry Barton



PATENT
Attorney Docket No.: 18865-000800US
Client Reference No.: 17732-8026

*7/ Declaration
Step toe
12/21/00*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MO, BRIAN SZE-KI

Application No.: 09/282,274

Filed: March 31, 1999

For: A TRENCH TRANSISTOR WITH
A SELF-ALIGNED SOURCE

Examiner: S. Hu

Art Unit: 2811

DECLARATION UNDER 37 C.F.R. 1.131

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

I, Brian Sze-Ki Mo, hereby declare and state as follows:

1. All the work described in this declaration was performed in the United States of America.
2. I am the sole inventor of the material recited in all pending claims of the above-identified patent application.
3. Prior to August 24, 1998, I conceived the subject matter of the invention described in the pending claims in the United States of America.
4. From before August 24, 1998 to March 31, 1999, I diligently worked towards filing a patent application for my invention in the United States Patent and Trademark Office.
5. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that

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MO

Application No.: 09/282,274

Page 2

PATENT

these statements were made with the knowledge that willful false statements, and the like, so made are punishable by a fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent application or any patent issued thereon.

Date: Nov 22, 2000

By: Brian Sze-Ki Mo
Brian Sze-Ki Mo

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Assistant Commissioner for Patents
Washington, D.C. 20231

On December 7, 2000

TOWNSEND and TOWNSEND and CREW LLP

By: Sherry Barton



PATENT
Attorney Docket No.: 18865-000800US
Client Reference No.: 17732-8026

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MO, BRIAN SZE-KI

Application No.: 09/282,274

Filed: March 31, 1999

For: A TRENCH TRANSISTOR WITH
A SELF-ALIGNED SOURCE

Examiner: S. Hu

Art Unit: 2811

DECLARATION UNDER 37 C.F.R. 1.131

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

I, Babak S. Sani, hereby declare and state as follows:

1. I am a patent attorney at Townsend and Townsend and Crew and am attorney of record for the above-identified patent application.
2. All the work described in this declaration was performed in the United States of America.
3. Mr. Brian Sze-Ki Mo is the sole inventor of the material recited in all pending claims of the above-identified patent application
4. Prior to August 24, 1998, Mr. Mo conceived the subject matter of the invention described in the pending claims in the United States of America as declared in a declaration of Mr. Mo filed herewith.

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5. From before August 24, 1998 to March 31, 1999, Mr. Mo diligently worked towards filing a patent application in the United States Patent and Trademark Office as evidenced by the following sequence of events:

a. Attachment 1 is a billing record for the patent attorney, Mr. Scott W. Hewett ("SHW" in Attachment 1), of Townsend and Townsend and Crew who prepared the patent application for the present invention.

b. As shown in Attachment 1, on July 9, 1998, Mr. Hewett commenced prosecution of the patent application by reviewing the file and material provided by Mr. Mo.

c. Attachment 1 also shows that, between August 23, 1998 and August 31, 1998, Mr. Hewett worked six days and logging 29.5 hours, preparing a first draft of the patent application.

d. Attachment 2 shows that, on August 31, 1998, Mr. Hewett mailed the first draft of the patent application to Mr. Mo for his review and comments.

e. Attachment 1 also shows that, on October 13, 1998, Mr. Hewett logged 0.6 hours reviewing references for cross-citing in related applications

f. Attachment 1 also shows that, on December 9, 1998, Mr. Hewett logged 1.5 hours meeting with Mr. Mo to discuss the first draft of the patent application.

g. Attachment 1 also shows that, on December 11, 1998, Mr. Hewett logged 5.6 hours revising the first draft of the patent application in accordance with Mr. Mo's comments and prepared formal documents for Mr. Mo's signature.

h. Attachment 3 shows that, on December 14, 1998, Mr. Hewett mailed a final draft of the patent application, together with an inventor's Declaration and Assignment, to Mr. Mo for his review and comments.

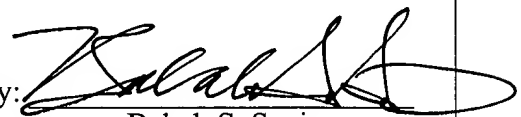
i. Attachment 1 also shows that, on March 19, 1999, I logged 2.5 hours meeting with Mr. Mo discussing the revised patent application and further changes to the description of the invention.

j. Attachment 1 also shows that, on March 23, 1999, I logged 2.5 hours reviewing the patent application and notes from the March 19, 1999 meeting with Mr. Mo, edited the patent application to complete a final draft, and mailed the final draft of the patent application to Mr. Mo for his review.

k. Attachment 1 also shows that, on March 31, 1999, the finally approved patent application was filed in the United States Patent and Trademark Office.

6. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements, and the like, so made are punishable by a fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent application or any patent issued thereon.

Date: 11/29/00

By: 
Babak S. Sani

Enclosures: Attachments 1-3.

ATTACHMENT 1

COPY

Client Number 018865-BSS
Matter Number 000800US

Re: (000800US) U.S. Patent Utility Electrical
Self-Aligned Sources for Trench DMOS Transistors
Client Reference No: 17732-8026

FOR PROFESSIONAL SERVICES RENDERED:

07/09/98	SWH	Review of the file and material supplied by the client.	0.50
07/30/98	SWH	Review of disclosure and references in preparation for meeting with Mr. Mo. Meeting with Mr. Mo at Fairchild to discuss the invention.	1.70

TOTAL HOURS 2.20

Scott W. Hewett

COPY

Client Number 018865-BSS
Matter Number 000800US

Re: (000800US) U.S. Patent Utility Electrical
Self-Aligned Sources for Trench DMOS Transistors
Client Reference No: 17732-8026

FOR PROFESSIONAL SERVICES RENDERED:

08/23/98	SWH	Preparation of the application: review of related art, preparation of exemplary claim, preparation of the background section and related figures, preparation of figure for exemplary cross section.	8.30
08/26/98	SWH	Preparation of the patent application: additional description of device and description of the basic process, including figures.	4.30
08/27/98	SWH	Preparation of the patent application: additional description of the process.	3.70
08/28/98	SWH	Preparation of the patent application: description of the implantation process and related figures.	2.10
08/29/98	SWH	Preparation of the patent application: further description of the implantation and drive-in processes. Drafted the device claims. Edited the application.	7.80
08/31/98	SWH	Preparation of the method claims and Abstract. Edited the application. Prepared transmittal letter to the inventor for the draft application.	3.30
TOTAL HOURS			29.50

Scott W. Hewett

Client Number 018865-BSS

Matter Number 000800US

Re: (000800US) U.S. Patent Utility Electrical
Self-Aligned Sources for Trench DMOS Transistors
Client Reference No: 17732-8026

FOR PROFESSIONAL SERVICES RENDERED:

10/13/98	SWH	Review of references for cross-citing in related applications.	0.60
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TOTAL HOURS			0.60

Scott W. Hewett

COPY

Client Number 018865-BSS
Matter Number 000800US

Re: (000800US) U.S. Patent Utility Electrical
Self-Aligned Sources for Trench DMOS Transistors
Client Reference No: 17732-8026

FOR PROFESSIONAL SERVICES RENDERED:

12/09/98	SWH	Meeting at Fairchild with the inventors to discuss the draft application.	1.50
12/11/98	SWH	Revision of the application according to the inventor's comments. Preparation of the Declaration and Assignment documents.	5.60
TOTAL HOURS			7.10

Scott W. Hewett

COPY

Client Number 018865-BSS
Matter Number 000800US

Re: (000800US) U.S. Patent Utility Electrical
Self-Aligned Sources for Trench DMOS Transistors
Client Reference No: 17732-8026

FOR PROFESSIONAL SERVICES RENDERED:

03/19/99	BSS	Meet with Brian Mo and discuss comments on and further changes to the description of the invention.	2.50
03/23/99	BSS	Review draft application and notes from meeting with inventor. Edit appln and finalize draft. Forward to inventors along with formal drawings for review and execution.	2.50

TOTAL HOURS			5.00

Babak S. Sani

Client Number 018865-BSS

Matter Number 000800US

Re: (000800US) U.S. Patent Utility Electrical
Self-Aligned Sources for Trench DMOS Transistors
Client Reference No: 17732-8026

FOR COSTS ADVANCED AND EXPENSES INCURRED:

03/31/99	Patent Assignment Fee	40.00
03/31/99	Patent Filing Fee	838.00

ATTACHMENT 2

TOWNSEND
and
TOWNSEND
and
CREW
LLP



Denver, Colorado
Tel 303 571-4000
San Francisco, California
Tel 415 576-0200
Seattle, Washington
Tel 206 467-9600

Palo Alto
379 Lytton Avenue
Palo Alto
California 94301-1431
Tel 650 326-2400
Fax 650 326-2422

August 31, 1998

VIA FEDERAL EXPRESS

Brian Sze-Ki Mo
Fairchild Semiconductor Corporation
1322 Crossman Avenue
Sunnyvale, CA 94089

Re: New U.S. Patent Application for:
A TRENCH TRANSISTOR WITH A SELF-ALIGNED SOURCE
Inventor: Brian Sze-Ki Mo
Your Ref.: 17732-8026
Our Ref.: 18865-000800

Dear Brian:

Enclosed is a draft of the above-referenced patent application based on the invention disclosure and our discussion of the invention.

Please review the draft and note any changes necessary to describe and claim the invention. Changes and comments may be written on the draft application and returned to us. We recommend that you do not keep copies of draft applications, and that if you make a copy, you return it to us or destroy it. We are looking forward to your comments.

If you have any questions or comments, please do not hesitate to call me at (650) 324-6356.

Very truly yours,

A handwritten signature in black ink, appearing to read "Scott W. Hewett".

Scott W. Hewett

SWH:sgk

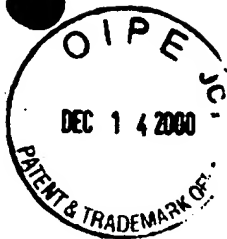
Enclosure

cc: Daniel E. Boxer, Esq.
Babak Sani, Esq.

ATTACHMENT 3

TOWNSEND
and
TOWNSEND
and
CREW

LLP



Denver, Colorado
Tel 303 571-4000
San Francisco, California
Tel 415 576-0200
Seattle, Washington
Tel 206 467-9600

Palo Alto
379 Lytton Avenue
Palo Alto
California 94301-1431
Tel 650 326-2400
Fax 650 326-2422

December 14, 1998

VIA FEDERAL EXPRESS

Brian Sze-Ki Mo
Fairchild Semiconductor Corporation
1322 Crossman Avenue
Sunnyvale, CA 94089

Re: New U.S. Patent Application for:
A TRENCH TRANSISTOR WITH A SELF-ALIGNED SOURCE
Inventor: Brian Sze-Ki Mo
Your Ref.: 17732-8026
Our Ref.: 18865-000800

Dear Brian:

Enclosed is a final draft of the patent application we have prepared according to your comments on the prior draft. Please review the application carefully, and if all is in order, execute the application by signing and dating the Declaration form that is attached to the front of the application. Please note that the Assignment form should be signed before two witnesses, who should both also sign and date the assignment. Please include the date the Declaration as the "date of execution" on the Assignment form.

If any changes are required, please call me to discuss the best way to incorporate the changes to the application.

After execution, please return everything to us for filing in the Patent Office. We will mail you a copy of the application as filed in the Patent Office.

Please note that we cannot make any guarantees whether we will be successful in obtaining a patent for this invention or that any patent that may be issued will be as broad as you would like.

If you have any questions concerning the application, please don't hesitate to call us.

Very truly yours,

Scott W. Hewett

SWH:sgk

Enclosure

cc: Daniel E. Boxer, Esq.
Babak Sani, Esq.

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